

JACKSON County 2021

INVENTORY, APPRAISAL & INSPECTION SNAPSHOT

2/9/2021

(November Data update)

Inventory Data - NBIS Bridges Only

				<u>NBIS COUNT</u>		
NBIS Bridges > 20'				146		
Bridges 10'-20'				113		
				259		
Item 22 Inspection Responsibility				CODE	# NBIS	# ALL
Data Tab	Col BV,Bw County			2	146	259
Item 21 Maintenance responsibility				CODE	# NBIS	# ALL
Data Tab	County			2	144	257
Col D	City or other local			4	0	0
	Railroad			27	2	2
	Private (tohter than RR)			26	0	0
	State Park			11	0	0
	Local Park			23	0	0
	Township			3	0	0
					146	259
Item 42 Type service on bridge				CODE	# NBIS	# ALL
Data Tab	Other			0	0	0
Col Q	Highway			1	144	257
	Railroad			2	2	2
	Ped/Bikeway			3	0	0
	Hwy/RR			4	0	0
	Hwy/Ped			5	0	0
					146	259
Item 42 Type service under bridge				CODE	# NBIS	# ALL
Data Tab	Other			0	0	0
Col R	Hwy w/ or w/o Ped			1	0	0
	Railroad			2	1	1
	Ped/Bkwy			3	0	0
	Hwy w/ RR			4	0	0
	Waterway			5	143	256
	Hwy/waterway			6	2	2
	RR/waterway			7	0	0
	Hwy/waterway/RR			8	0	0
	Relief (for waterways)			9	0	0
					146	259

ITEMS 43A,B,C Structure Type (Col M,N,O)		CODE	# NBIS	# ALL
Other Culvert (incl frame culverts)		019	0	19
Concrete Slab		101	7	22
Concrete Tee Beam		104	12	15
Concrete Frame		107	0	27
Concrete Culvert (incl frame culverts)		119	1	6
Steel Beam or Girder		302	79	112
Steel Girder w/ Floor System		303	2	2
Steel Thru Truss (includes Pony)		310	29	29
Steel Culvert (incl frame culverts)		319	2	13
Steel Continuous Beam or Girder		402	1	1
Prestressed Concrete Thru Arch		502	2	2
Prestr. Conc. Cont. Box Beam/Girder Multiple		505	6	6
Timber Thru Arch		702	3	3
Timber Thru Truss (includes Pony)		710	2	2
			146	259

Item 92 Fracture Critical		CODE	# NBIS	# ALL
Data Tab	Requires FC Inspection	Y	30	n/a
Col U,V,Y	Requires FC Inspection	N	116	n/a
			146	n/a
FC Switch Y/N is Blank			0	n/a

Item 113 Scour			# NBIS	# ALL
Data Tab	Bridge not over waterway	N	1	1
Col AA	unknown foundation	U	0	0
	over tidal waters	T	0	0
	foundations on dry land	9	11	23
	stable above footing	8	124	222
	countermeasures installed	7	2	4
	no scour evaluation made	6	0	0
	stable within footer limits	5	8	9
	stable action needed	4	0	0
	scour critical - unstable	3	0	0
	scour critical - scour present	2	0	0
	scour critical - failure immines	1	0	0
	scour critical - bridge failed	0	0	0
			146	259

Item 63 Documented Engineering Judgment		# NBIS	# ALL
	Field Eval & Doc EJ	14	n/a

BR_100 for these bridges?

Item 92 Underwater		CODE	# NBIS	# ALL
Data Tab	requires dive inspection	N	143	n/a
Col W,X,Z	requires dive inspection	Y	0	n/a
			143	
	dive insp date blank		3	

JAC-T0216-0081_(4032633)
 JAC-C0002-0389_(4030266)
 JAC-T0384-0133_(4033265)

Item 70 Plan Information		CODE	# NBIS	# ALL
Data Tab	plans not avail	0	12	37
Col. AV	plan avail	1	81	127
	field measured	2	51	93
	Field Testing	3	0	0
	not applicable	N	2	2
			146	259

Item 63 Method of Analysis		CODE	# NBIS	# ALL
Data Tab	Field Eval & Doc. Eng Judgme	0	14	40
Col. AV	Work Stress	1	0	0
	LFR	2	0	0
	LRFR	3	0	0
	Load testing	4	0	0
	No Rating done	5	2	27
	Load Factor (LF)	6	45	49
	WS or AS	7	72	99
	Load & Resistance Factor	8	13	39
	Assigned Rating (LFR) HS20	D	0	4
	Assigned Rating (LRFR) HL93	F	0	1
	Not applicable (Ped, RR, Bldg)	X	0	0
			146	259

REMINDER:

Load Factor required for bridges built after (exceptions: timber, etc.)
LRFR required for bridges built after 2010

JAC-T0317-0017_(403305) JAC-T0340-0113_(4033132)

JAC-T0190-0166_(403508) JAC-T0217-0005_(4033469)

The 4 bridges above are coded P in column S but are over 100% legal in Column T in Load Rating TAB

Coding in Column U is off and does not match %

JAC-T0203-0052_(403252) JAC-T0067-0022_(4033005)

JAC-T0066-0010_(403515) JAC-C0016-0221_(4030658)

The 4 bridges above need to have operating and Inventory factors in Tons if Item 63 Method Used is coded as 0

KEY METRICS

(C)	Compliant	(CC)	Conditionally Compliant
(SC)	Substantially Compliant	(NC)	Non- Compliant
		(NC)	(SC) If corrected within 6/12 months Refresher=6 mo, Comprehensive=12 mo

METRIC 2 - Program Manager Qu (from files examination)

From Files review	Missing	#sampled	% PASS	COMPLIANCE
PE /Experience	0	1	100.0%	(C)
Comprehensive	0	1	100.0%	(C)
Refresher	0	1	100.0%	(C)

METRIC 3 - Team Leader Qualifi (from files examination)

From Files review	Missing	#sampled	% PASS	COMPLIANCE
Degree /Experience	0	2	100.0%	(C)
Comprehensive	0	2	100.0%	(C)
Refresher	0	2	100.0%	(C)

METRIC 6 FC Insp. Frequency Routine

Bridge Inspections Overdue	Overdue	% PASS	COMPLIANCE
Data Tab NBIS - 24 months	0	100.0%	(C)
Col. Y ORC - Calendar Year	0	100.0%	(C)
BIM - 18 months	0	100.0%	(C)

METRIC 6 Insp. Frequency Routine

Bridge Inspections Overdue	# OVERDUE	% PASS	COMPLIANCE
Data Tab NBIS - 24 months	0	100.0%	(C)
Col. AB ORC - Calendar Year	0	100.0%	(C)
BIM - 18 months	0	100.0%	(C)

METRIC 8 - Insp. Frequency Underwater					
Dive Inspections Overdue		# OVERDUE	# UW	% PASS	COMPLIANCE
Data Tab Col. Z	60 months	0	0	100.0%	(C)

METRIC 10 - Insp. Frequency FC Member					
FC Inspections Overdue		# OVERDUE	# FC	% PASS	COMPLIANCE
Data Tab Col. Y	24 months	0	30	100.0%	(C)

METRIC 12 - Routine Inspection <small>** (from files examination)</small>					
Field Ratings		# > +/-1	# Ratings	% PASS	COMPLIANCE
	field ratings	0	30	100.0%	(C)
Comments		Missing	# < 6	% PASS	
Tab	Comments when Rating < 6	6	143	95.8%	(C)
	Inadequate comments**	0	6	100.0%	(C)
		Error	total Score	% PASS	
Comment	Rating should be = Scour	4	140	97.1%	within tolerance +/- 1
Tab	Noncompliant Scour Rating E	2	140	98.6%	(C)

METRIC 14 - Posting <small>Load rating data tab</small>					
From Files review		# errors	# sampled	% PASS	COMPLIANCE
Op RF < 3 tons but not close	Column B	4	146	97.3%	(SC)
Op RF = 0 but not closed	Column B	0	146	100.0%	(C)
% Legal < 100 but not posted	Column B	5	146	96.6%	(SC)
Item 41 = B	Column B	0	146	100.0%	(C)

Metric 12

JAC-C0056-0079_(403155 JAC-T0217-0005_(4033469)

JAC-C0039-0504_(403 JAC-C0073-00.21_(4030746)

Metric 14

Coding Error (see the 4 bridges highlighted in Green above under Load Rating) simple fix

JAC-T0217-0005_(403346 JAC-T0298-0191_(403303 JAC-T0190-0166_(4035089)

JAC-T0317-0017_(403305 JAC-T0340-0113_(4033132)

See columns S & T in Load Rating TAB to see coding error. Again simple fix

METRIC 16 - Fracture Critical Ins (from files examination)

From Files review	Missing	# FC	% PASS	COMPLIANCE
Fract Critical Member ID	0	2	100.0%	(C)
Fatigue Prone Detail	0	2	100.0%	(C)
Gusset Plate Calculations	0	2	100.0%	(C)
FC Inspection Procedure	0	2	100.0%	(C)

METRIC 17 - Underwater Inspecti (from files examination)

From Files review	Missing	# UW	% PASS	COMPLIANCE
Uw Inspection Procedure	0	0	100%	(C)
Location of Uw elements	0	0	100%	(C)
Uw frequency identified	0	0	100%	(C)

PRELIMINARY FHWA 23 Metric Matrix

23 metrics used by FHWA to measure NBIS compliance

Compliance Codes for the following Metrics:

- (C)** Compliant
- (SC)** Substantially Compliant
- (CC)** Conditionally Compliant (Adhering to approved PCA)
- (NC)** Not Compliant

Metric	Description	(C)	(SC)	(CC)	(NC)
1	State Bridge Inspection Organization				
2	Program Manager Qualification				
3	Team Leader Qualification				
4	Load Rating Engineer Qualification				
5	UW Bridge Inspection Diver Qualification				
6	Routine Inspection Frequency - Low Risk				
7	Routine Inspection Frequency - High Risk				
8	UW Inspection Frequency - Low Risk				
9	UW Inspection Frequency - High Risk				
10	FC Inspection Frequency				
11	Frequency Criteria				
12	Inspection Quality				
13	Load Rating				
14	Posted or Restricted Bridges				
15	Bridge Files				
16	FC Bridges				
17	UW inspection procedures				
18	Scour Critical Bridges				
19	Complex Bridges				
20	QC/QA				
21	Critical Findings				
22	Inventory**				
23	Updating of Data				

** based on results of Field Review

Metric	Action Needed
13	Minor coding error corrections needed see comments above
14	Minor coding error corrections needed see comments above